

LISTING OF THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) An ~~optical disc~~ computer readable recording medium comprising a data structure for managing random/shuffle reproduction of video data recorded on the recording medium, the data structure including:

~~at least one title management information file;~~
~~a playlist directory area storing at least one playlist including at least one playitem; and~~
~~a stream directory area storing at least one clip containing video data associated with the playlist;~~

a playlist directory area storing at least one playlist indicating the clip, the playlist including at least one playitem representing the playing interval of the clip; and

at least one title management information file, ~~wherein the title management information file includes~~ including at least one segment indicating ~~that is associated with at least one the~~ playlist in the playlist directory area;

wherein the ~~each~~ playitem in the playlist is a unit to be randomized or shuffled during random/shuffle reproduction mode; and

the title management information file is located in a given directory area different from the playlist directory area.

2. (Previously Presented) A recording medium set forth in claim 1, wherein a title managed by the title management information file is a logical unit of video data that is regarded

as a reproduction unit by users.

3. (Previously Presented) A recording medium set forth in claim 1, wherein the title management information file includes information on branch points at which reproduction path is divided during reproduction.

4. (Original) A recording medium set forth in claim 3, wherein the branch point information has segments, each segment being assigned to each reproduction path.

5. (Original) A recording medium set forth in claim 4, wherein the segments assigned to the different reproduction paths are associated with a plurality of distinct playlists.

6. (Original) A recording medium set forth in claim 5, wherein the plurality of distinct playlists are associated with distinct clips or disjoint intervals of one clip.

7. (Original) A recording medium set forth in claim 1, wherein a random/shuffle reproduction block is designated by at least one playlist.

8. (Original) A recording medium set forth in claim 7, wherein one playlist that is designated as a random/shuffle reproduction block includes a plurality of playitems.

9. (Previously Presented) A recording medium set forth in claim 1, wherein information on the random/shuffle reproduction block is stored in the title management information file.

10. (Original) A recording medium set forth in claim 1, wherein information on the random/shuffle reproduction block is stored in the playlist.

11. (Previously Presented) A recording medium set forth in claim 1, wherein the playitem is associated with a whole clip or a portion of clip based on clip information stored in a clip information directory area.

12. (Currently Amended) A method for recording a data structure for managing random/shuffle reproduction of video data on an optical disc recording medium, the method comprising:

~~recording at least one title management information file on the recording medium;~~

~~recording at least one playlist including at least one playitem in a playlist directory area on the recording medium; and~~

~~recording at least one clip associated with the playlist in a stream directory area on the recording medium, such that~~

~~the~~ a title management information file on the recording medium includes at least one segment ~~that is associated with at least one~~ indicating a playlist in the playlist directory area, the playlist directory area storing at least one playlist indicating the clip, the playlist including at least one playitem representing the playing interval of the clip;

wherein the ~~each~~ playitem in the playlist is a unit to be randomized or shuffled during random/shuffle reproduction mode, and

the title management information file is located in a given directory area different from

the playlist directory area.

13. (Currently Amended) A method for reproducing a data stream that has been recorded on an optical disc recording medium having a data structure for managing random/shuffle reproduction of video data thereon, the method comprising:

reproducing, from a given directory area, at least one title management information file including at least one segment from the recording medium;

reproducing at least one playlist including at least one playitem from a playlist directory area on the recording medium different from the given directory area, the playlist being associated with the segment~~[[;]]~~, the segment indicating the playlist and

reproducing at least one clip indicated by ~~associated with~~ the playlist from a stream directory area on the recording medium the playlist including at least one playitem representing the playing interval of the clip;

wherein each playitem in the playlist is selected in random or shuffle mode; and at least a portion of the clip corresponding to the selected playitem is reproduced.

14. (Currently Amended) An apparatus for recording a data structure for managing random/shuffle reproduction of video data on an optical disc recording medium, comprising:

a drive unit to drive an optical recording device that records data on the recording medium;

an encoder to encode the video data; and

a controller to control the drive to record the encoded video data on the recording medium, wherein:

the controller controls the drive unit to record ~~at least one title management information file on the recording medium, to record at least one playlist including at least one playitem in a playlist directory area on the recording medium in a given directory area, and to record at least one clip associated with the playlist in a stream directory area on the recording medium, such that~~

~~the~~ a title management information file on the recording medium includes at least one segment, ~~the segment being associated with at least one~~ indicating a playlist in the playlist directory area different from the given directory area, the playlist directory area indicating the clip, the playlist including at least one playitem representing the playing interval of the clip, each playitem in the playlist being a unit to be randomized or shuffled during random/shuffle reproduction mode.

15. (Currently Amended) An apparatus for reproducing a data stream recorded on an optical disc recording medium having a data structure for managing random/shuffle reproduction of video data thereon, comprising:

a drive unit to drive an optical reproducing device that reproduces data recorded on the recording medium; and

a controller to control the drive to reproduce one title management information file including at least one segment from a given directory area of the recording medium, to reproduce a playlist associated with the segment and having at least one playitem from a playlist directory area on the recording medium different from the given directory area, the segment indicating the playlist in the playlist directory area, to reproduce at least one clip ~~associated with~~ indicated by the playlist the clip from a stream directory area on the recording medium; the playlist including

at least one playitem representing the playing interval of the clip, wherein:

each playitem in the playlist is selected in random or shuffle mode; and at least a portion of the clip corresponding to the selected playitem is reproduced.

16. (Previously Presented) A recording medium as set forth in claim 1, wherein the given directory area is a title directory area.

17. (Previously Presented) A method as set forth in claim 12, wherein the given directory area is a title directory area.

18. (Previously Presented) A method as set forth in claim 13, wherein the given directory area is a title directory area.

19. (Previously Presented) An apparatus as set forth in claim 14, wherein the given directory area is a title directory area.

20. (Previously Presented) An apparatus as set forth in claim 15, wherein the given directory area is a title directory area.

21. (New) The method of claim 12, further comprising regarding a title that is a logical unit of data managed by the title management information file as a reproduction unit.

22. (New) The method of claim 12, further comprising dividing information on branch

points in the title management file during reproduction.

23. (New) The method of claim 12, further comprising designating a random/shuffle reproduction by at least one playlist.

24. (New) The method of claim 12, further comprising storing information on the random/shuffle reproduction block in the title management information file or in the playlist.

25. (New) The method of claim 12, further comprising associating the playitem with a whole clip or a portion of clip based on clip information stored in a clip information directory area.

26. (New) The method of claim 13, further comprising regarding a title that is a logical unit of data managed by the title management information file as a reproduction unit.

27. (New) The method of claim 13, further comprising dividing information on branch points in the title management file during reproduction.

28. (New) The method of claim 13, further comprising designating a random/shuffle reproduction by at least one playlist.

29. (New) The method of claim 13, further comprising storing information on the random/shuffle reproduction block in the title management information file or in the playlist.

30. (New) The method of claim 13, further comprising associating the playitem with a whole clip or a portion of clip based on clip information stored in a clip information directory area.

31. (New) The apparatus of claim 14, wherein a title managed by the title management information file is a logical unit of video data that is regarded as a reproduction unit by users.

32. (New) The apparatus of claim 14, wherein the title management information file includes information on branch points at which reproduction path is divided during reproduction.

33. (New) The apparatus of claim 14, wherein a random/shuffle reproduction block is designated by at least one playlist.

34. (New) The apparatus of claim 14, wherein information on a random/shuffle reproduction block is stored in the title management information file or in the playlist.

35. (New) The apparatus of claim 14, wherein the playitem is associated with a whole clip or a portion of clip based on clip information stored in a clip information directory area.

36. (New) The apparatus of claim 15, wherein a title managed by the title management information file is a logical unit of video data that is regarded as a reproduction unit by users.

37. (New) The apparatus of claim 15, wherein the title management information file

includes information on branch points at which reproduction path is divided during reproduction.

38. (New) The apparatus of claim 15, wherein a random/shuffle reproduction block is designated by at least one playlist.

39. (New) The apparatus of claim 15, wherein information on the random/shuffle reproduction block is stored in the title management information file or in the playlist.

40. (New) The apparatus of claim 15, wherein the playitem is associated with a whole clip or a portion of clip based on clip information stored in a clip information directory area.

<End of Claims Listing>